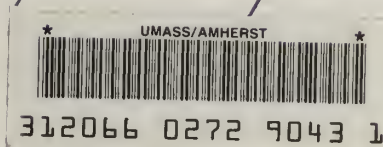


11/95. Y3.LPI: P66/4/2000/FINAL

Unified Transportation Work Program



Fiscal Year 2000

October 1, 1999 to September 30, 2000

Final Document

September, 1999

This document is developed through the assistance of the Federal Highway Administration, the Federal Transit Administration, the Massachusetts Executive Office of Transportation & Construction, the Massachusetts Highway Department and the Pioneer Valley Transit Authority.



Digitized by the Internet Archive
in 2015

https://archive.org/details/pioneervalleyuni00pion_0

Pioneer Valley
Unified Transportation Work Program

Fiscal Year 2000
October 1, 1999 to September 30, 2000

Final Document
September, 1999

Prepared by the
Pioneer Valley Planning Commission

This document is developed through the assistance of the Federal Highway Administration, the Federal Transit Administration, the Massachusetts Executive Office of Transportation & Construction, the Massachusetts Highway Department and the Pioneer Valley Transit Authority.

Table of Contents

INTRODUCTION	1
WORK ELEMENT 1 - MANAGEMENT AND CERTIFICATION OF THE 3C PROCESS.....	3
Task 1.1 Management of the 3-C Process	3
Task 1.2 Unified Transportation Work Program	4
Task 1.3 Public Participation Process	4
Task 1.4 TIP Development	5
Task 1.5 Statewide Funding Proposal Assistance.....	6
Task 1.6 Strategy 2000.....	7
Task 1.7 Enhancement Project Start-up	7
WORK ELEMENT 2 - TECHNICAL SUPPORT & DATA COLLECTION	9
Task 2.1 Traffic Counting.....	9
Task 2.2 Regional Travel Demand Modeling/Clean Air Planning	9
Task 2.3 GIS, Mapping and Graphics.....	11
Task 2.4 Information Center	12
Task 2.5 Regional Congestion Management System-Data Collection	13
Task 2.6 Regional Pavement Management System - Data Collection	14
WORK ELEMENT 3 - REGIONAL TRANSPORTATION PLANNING.....	15
Task 3.1 Regional Transportation Plan.....	15
Task 3.2 Transit System Surveys and Route Implementation	16
Task 3.3 East Longmeadow Rotary Study	16
Task 3.4 Jacob's Ladder Trail Scenic Byway Project	17
Task 3.5 Regional Congestion Management System-Project Development	19
Task 3.6 Regional Pavement Management System - Project Development	20
Task 3.7 Bradley Airport Study	20
Task 3.8 Regional Studies	21
Task 3.9 Intelligent Transportation Systems (ITS) - Strategic Planning	22
Task 3.10 Transit Economic Development and Access to Jobs - Regionwide Studies/Programs ..	22
Task 3.11 Connecticut River Walk & Bikeway Coordination	24
Task 3.12 Maple Street Bridge Project, Chester	25
WORK ELEMENT 4 - ONGOING TRANSPORTATION PLANNING.....	26
Task 4.1 Regional Transit Planning	26
Task 4.2 Paratransit Planning Assistance	27
Task 4.3 Implementing the Regional Land Use Plan	28
Task 4.4 Pedestrian, Transit and Bicycling Promotion	29
Task 4.5 Regional Bicycle and Pedestrian Planning	30
Task 4.6 Local Technical Assistance.....	31
Task 4.7 Local Pavement Management Program	32
STAFFING REPORT	33
ADDITIONAL PLANNING PROJECTS	34
PREVIOUS TRANSPORTATION STUDIES.....	34
FUNDING PROFILE	36
FUNDING SUMMARY.....	37

INTRODUCTION

The Unified Transportation Work Program (UWP) is a narrative description of the annual technical work program for a continuing, cooperative and comprehensive (3C) transportation planning process in the Pioneer Valley Region. As the lead planning agency for the Pioneer Valley Metropolitan Planning Organization (MPO), the Pioneer Valley Planning Commission (PVPC) is responsible for developing the UWP in cooperation with other members of the MPO including the Pioneer Valley Transit Authority, the Executive Office of Transportation and Construction (EOTC), and the Massachusetts Highway Department (MassHighway).

The UWP provides an indication of regional long and short-range transportation planning objectives, the manner in which these objectives will be achieved, the budget necessary to sustain the overall planning effort, and the sources of funding for each specific program element. All tasks will be performed by the PVPC in cooperation with appropriate agencies, unless otherwise stated.

The work tasks within this UWP are reflective of issues and concerns originating from transportation agencies at the federal, state and local levels. As always, the UWP continues and extends the PVPC's emphasis on "results-oriented" tasks. In addition, several tasks are specifically targeted to implement provisions of several pieces of federal legislation, particularly the Transportation Equity Act for the 21st Century (TEA-21), the Clean Air Act Amendments of 1990 (CAAA) and the Americans with Disabilities Act (ADA).

The descriptions of the tasks to be accomplished and the budgets for these tasks are based on the best estimate of what can be accomplished within the confines of available resources. If, in the performance of this work program, it becomes apparent that certain tasks cannot be accomplished due to changing or unforeseen circumstances, the UWP will be adjusted by redefining the scope of the tasks and/or reallocating funds among tasks. Such adjustments will be developed in cooperation with MassHighway, the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the Pioneer Valley Transit Authority (PVTa), and other concerned agencies as appropriate.

The time periods, or "program years", for the various funding sources are outlined in the following chart:

Funding Source	Fiscal Period:
FHWA/MassHighway	October, 1999 through September, 2000
FTA/EOTC	October, 1999 through September, 2000
PVTA	July, 1999 through June, 2000
Scenic Byways Program	Various Contract Periods

The Pioneer Valley Metropolitan Planning Organization endorses the 2000 Unified Transportation Work Program for the Pioneer Valley Region once it has been developed cooperatively and in accordance with the Public Participation Process developed for this region. A meeting will be scheduled in late Summer or early Fall 1999.

TRANSPORTATION PLANNING FUNDING SOURCES

FHWA/MassHighway - MassHighway receives two types of funds from FHWA that are passed through to planning agencies to conduct 3C transportation planning activities. These funds include Metropolitan Planning funds (PL) and Statewide Planning and Research funds (SPR) and are apportioned to states on the basis of population in urbanized areas and relative to the amount of highway construction funds the state receives. MassHighway maintains multi-year contracts with planning agencies to conduct transportation related planning activities within their region. These multi-year contracts utilize the PL and SPR funds received by FHWA.

Within the Pioneer Valley region the predominant source of funding from MassHighway is PL funds. Unexpended funds from contract to contract are reserved in a "PL Balance" account for the region. Outlined below is a summary of PVPC continuing PL funding account.

Total PL Allocations, FFY 1974 - FFY 1999	\$7,141,091
Total PL Expenditures, FFY 1974 - Present (April 30, 1999)	\$6,177,613
Current PL Balance as of April 30, 1999	\$963,478

Source: MassHighway

A total of \$667,000 in PL funds has been programmed for PVPC's FY2000 Transportation Work Program. Of this \$667,000, \$335,400 is money that was previously encumbered but unexpended from our current 3C Contract (#97106). The remaining \$331,600 is "new" PL funding for FY2000.

SPR funds are also typically administered by the state to carry out specific technical activities. Within the Pioneer Valley region SPR funds are used to conduct traffic studies and the Regional Pavement Management System.

FTA/EOTC/PVTA -Two types of funds are used for transit planning purposes in the Pioneer Valley region; Section 5303 (formerly Section 8 Metropolitan Planning) and Section 5307 funds (formerly Section 9 Capital) of the Federal Transit Act Amendments of 1991. Section 5303 funds are earmarked for the use of planning and technical studies related to urban mass transportation. They are filtered down from the Federal Transit Administration through the EOTC to the regional planning agencies in the Commonwealth. Section 5307 funds can be used for planning as well as other purposes, and are distributed by the FTA on the basis of the RTA service area population. The Pioneer Valley Transit Authority, using Section 5307 funds from the FTA, contracts with the PVPC for assistance on a wide range of planning activities. Both funds require a 20% local match, which in the case of this region is provided by the RTA.

The Pioneer Valley Transit Authority, the FTA Section 5307(c) applicant, has consulted with the Pioneer Valley Planning Commission and concurs that the public involvement process adopted by the MPO for the development of the UWP satisfies the public hearing requirements that pertain to the development of the Program of Projects for regular Section 5307, Urbanized Area Formula Program, grant application including the provision for public notice and the time established for public review and comment.

For FTA projects that are not routine; i.e. Section 5307 applications that required environmental assessment or an environmental impact statement, the public involvement provided herein for UWP review is not sufficient. Additional public involvement will be required by FTA prior to grant approval, as presented in the joint FHWA/FTA environmental regulations, 23 CFR-Part 771.

Other Funding Sources - Other funding sources available are typically applied for to conduct specific planning activities. These funds include highway funds such as Congestion Mitigation Air Quality (CMAQ) funds and Scenic Byway funds. Similar to incentive grants provided by the Executive Office of Community Development (EOCD), these funds are awarded on a competitive basis and award is not guaranteed.

Many projects completed by the Community Development and Land Use Sections are funded through the award of competitive grants and through private contracts with local communities. These sources include MIGs grants, Community Development Block Grants, Community Development Action Grants, and urban Development Action Grants. The PVPC also receives a modest amount of funding from community assessment dollars which is used to supplement the local technical assistance program.

WORK ELEMENT 1 - MANAGEMENT AND CERTIFICATION OF THE 3C PROCESS

This work element encompasses the administration and support of the 3-C transportation process and has been divided into the following tasks for FY 2000.

Task 1.1 Management of the 3-C Process

OBJECTIVE:

To assist, support, and facilitate an open Comprehensive, Cooperative, and Continuing (3C) transportation planning and programming process at all levels of government in conformance with applicable federal and state requirements and guidelines as described in the 3C Memorandum of Understanding.

PREVIOUS WORK:

Management of the 3C process uses previous Unified Work Program and prospectus documents, transportation plans, Memorandum of understanding, and Annual Review Reports.

PROPOSED ACTIVITIES:

1. Provide liaisons between PVPC communities, PVTA, private transportation providers, abutting regions and communities including the State of Connecticut, and other organizations at the local, regional, state, and federal levels on transportation related matters, issues and actions.
2. Work with the Metropolitan Planning Organization (MPO) and its constituent members. Present transportation plans and programs developed through the 3C public participation process for appropriate MPO action.
3. Provide technical assistance to the Transportation Policy Advisory Group (i.e. Joint Transportation Committee) and subgroups thereof.
4. Participate in Transportation Managers Group as a means to continually improve the quality and operation of the transportation planning process.
5. Review and comment on federal and state transportation-related plans, programs, regulations and guidelines.
6. Provide transportation planning services in support of the PVPC's comprehensive planning programs and conduct meetings and workshops on transportation issues.
7. Participate in informational transportation programs and courses. Review literature on new transportation planning procedures.

PRODUCTS:

1. Technical assistance memoranda, reports, and workshops as needed.
2. Updates to certification documents as required.
3. MPO meeting minutes.

Source	Budget	Est. Staff Effort
MassHighway PL	\$35,000	23 weeks
FTA S.5303	\$16,600	11 weeks
PVTA S.5307	\$18,750	12 weeks
TOTAL	\$70,350	46 weeks

Task 1.2 Unified Transportation Work Program

OBJECTIVE:

To prepare and continually maintain a Unified Transportation Work Program (UWP) that describes all transportation and transportation-related planning activities anticipated within the PVPC planning region during the forthcoming period regardless of funding source. To develop, maintain, and complete the UWP in conformance with applicable federal, state, and regional guidelines.

PREVIOUS WORK:

1. Pioneer Valley Unified Work Programs 1974 - 1999.

PROPOSED ACTIVITIES:

1. Review and amend relevant portions of the PVPC's UWP in order to meet new planning requirements and/or circumstances pertinent to the region's transportation sector. Circulate revisions to the appropriate agencies for review and/or endorsement.
2. Develop a new UWP for the PVPC planning region covering the next program year. The development of a new UWP will be prepared in cooperation with the Regional Joint Transportation Committee (JTC) and MassHighway and subject to the adopted Public Participation Plan.

PRODUCTS:

1. Amendments to the current UWP as necessary.
2. UWP for the next program year (FFY 2001)

Source	Budget	Est. Staff Effort
MassHighway PL	\$4,000	3 weeks
FTA S.5303	\$1,200	1 weeks
TOTAL	\$5,200	4 weeks

Task 1.3 Public Participation Process

OBJECTIVE:

To provide the public with complete information, timely notice, full access to key decisions and opportunities for early and continuing involvement in the 3C process. To assess the effectiveness of the current Public Participation Process and to develop and enhance the process of regional involvement supporting the objectives of TEA-21.

PREVIOUS WORK:

1. Pioneer Valley Public Participation Process 1994 – 1999.
2. Memorandum of Understanding for the restructure of the Pioneer Valley Metropolitan Planning Organization.

PROPOSED ACTIVITIES:

1. Refine the current Public Participation Process as needed.
2. Apply the Public Participation Process to transportation programs and tasks: prepare for public meetings, attend public meetings, use the outreach staff person to increase public participation, inform and educate residents and employers of the region about the reauthorization of ISTEA, CAAA, and PVPC activities.
3. Review the Public Participation Process and enhance as necessary.
4. Apply new and innovative approaches to improve public participation levels and opportunities, especially for plans and programs.

5. Provide increased opportunities for under-served populations to comment on planning activities by offering both documents and public meetings in accessible formats.
6. Provide assistance in implementing start-up activities for grant-funded projects, including ISTE A Enhancement projects. Assistance will include developing RFPs, advertising projects for bids, assisting in engineer/designer selection and developing contracts for grant-funded projects.

PRODUCTS:

1. Meeting minutes.
2. Press releases for TDM, TMA and Enhancement projects.

Source	Budget	Est. Staff Effort
MassHighway PL	\$20,000	12 weeks
FTA S.5303	\$ 3,600	2 weeks
PVTA S.5307	\$ 5,000	3 weeks
TOTAL	\$28,600	17 weeks

Task 1.4 TIP Development

OBJECTIVE:

As lead planning agency of the Pioneer Valley MPO, the PVPC is responsible for annually developing, amending, adjusting and maintaining the Transportation Improvement Program (TIP) for the Pioneer Valley Region. Under this activity, PVPC will update and refine a staged, six-year program of transportation improvement projects that is consistent with the Regional Transportation Plan, the State Implementation Plan, EPA Air Quality Conformity Regulations and FHWA/FTA Planning Regulations.

PREVIOUS WORK:

1. Pioneer Valley Transportation Improvement Programs 1974 – 1999.

PROPOSED ACTIVITIES:

1. Solicit the submittal of transportation improvement projects from municipalities, MassHighway, PVTA and other transportation providers.
2. Maintain a database of improvement projects. Data will satisfy the requirements of the Metropolitan Planning Rules.
3. Provide technical assistance to the JTC for the refinement and application of a project priority system.
4. Maintain financial element for all years of the TIP. Financial constraint will be maintained based on funding targets provided by MassHighway. Funding sources will also be provided when available.
5. Present air quality conformity findings conducted for the RTP and TIP. Analyses and documentation will satisfy requirements of the Metropolitan Planning Rules.
6. Develop and maintain a schedule for preparing, reviewing and revising the TIP cooperatively with federal, state and regional officials.
7. Conduct appropriate public participation for the TIP consistent with the public participation plan for the region.
8. Present documents to the MPO for endorsement.
9. Conduct formal amendments and adjustments as necessary.
10. Produce and distribute TIP documents for federal, state and local parties.

11. Attend regular meetings with MassHighway staff from both district offices to exchange information regarding transportation improvement projects.

PRODUCTS:

1. FFY 2001 - 2006 Transportation Improvement Program.
2. Develop and refine procedures necessary for TIP preparation and amendment as necessary.
3. TIP Amendments and Adjustments as necessary.
4. Pioneer Valley Transportation Enhancements quarterly status report.

Source	Budget	Est. Staff Effort
MassHighway PL	\$25,000	17 weeks
FTA S.5303	\$4,800	3 weeks
PVTA S.5307	\$11,250	7 weeks
TOTAL	\$41,050	27 weeks

Task 1.5 Statewide Funding Proposal Assistance

OBJECTIVE:

To provide management, guidance and technical support to the development and maintenance of statewide TIP funding programs. Programs include Transportation Enhancements, Travel Demand Management, and Congestion Mitigation/Air Quality.

PREVIOUS WORK:

1. Statewide Funding Proposal Assistance – 1998, 1999.

PROPOSED ACTIVITIES:

1. Review and comment on guidelines developed for TIP funding programs.
2. Review and determine eligibility status of proposals received.
3. Establishment of appropriate committees for the evaluation of proposals.
4. Maintain public involvement and participation in the development process.
5. Conduct mailings and workshops as necessary to educate the public on available programs.
6. Participate in Statewide Transportation Enhancements Steering Committee, including prescreening of project proposals for eligibility. Review and comment on FY2000 guidelines for Enhancement projects.
7. Provide technical assistance to communities in the development of project grant proposals.
8. Assist in the implementation of the Route 9 Transportation Management Association.

PRODUCTS:

1. Procedures for appropriate programs.
2. Correspondence of regional activity involving programs.
3. Statewide Transportation Enhancements Steering Committee meetings.
4. Ranked project listings.
5. Memorandum of Understanding for the Route 9 TMA.

Source	Budget	Est. Staff Effort
MassHighway PL	\$17,500	12 weeks
TOTAL	\$17,500	12 weeks

Task 1.6 Strategy 2000

OBJECTIVE:

To develop Strategy 2000 products, activities, and events as detailed in the Strategy 2000 implementation plan to achieve the goal of facilitating community members understanding of the relationship between transportation planning, land use planning and economic development and how the three components can work together to create sustainable communities.

PREVIOUS WORK

1. Production of document, "There's No Place Like Our Home."
2. Strategy 2000 work plan: 1999-2000.

PROPOSED ACTIVITIES:

1. Develop programs and events to stimulate thought and solicit residents ideas about the Valley, particularly relating to their understanding of the links between transportation, land use and economic development.
2. Develop a program of technical assistance and training offered by PVPC staff to member communities to facilitate residents involvement in and understanding of Strategy 2000.
3. Develop a means of presenting information to the public on a number of regional indicators: mobility, economics, environment, and quality of life.

PRODUCTS:

1. Interactive effort that allows residents to share their ideas with one another and PVPC on the link between transportation, land use and economic development, possibly including a visual and/or written summary of residents vision for the Valley's future.
2. State of the Region address.
3. Call us" brochure encouraging residents to contact PVPC and act on Strategy 2000 ideas.
4. Information dissemination at identified events (Strategy 2000 Manual and brochure).

Source	Budget	Est. Staff Effort
MassHighway PL	\$24,400	15 weeks
PVTA S. 5307	\$2,500	2 weeks
TOTAL	\$26,900	17 weeks

Task 1.7 Enhancement Project Start-up

OBJECTIVE:

To assist in implementing start-up activities for grant-funded projects to enhance the region's intermodal transportation network.

PREVIOUS WORK:

1. East Longmeadow Bikepath Project Administration
2. Southwick Rails-to-Trails Project Administration.

PROPOSED ACTIVITIES:

1. Provide assistance in implementing start-up activities for grant-funded projects, including ISTE A Enhancement projects. Assistance will include developing RFPs, advertising projects for bids, assisting in engineer/designer selection and developing contracts for grant-funded projects.

PRODUCTS:

1. Technical assistance in implementing grant-funded projects.

Source	Budget	Est. Staff Effort
MassHighway PL	<u>\$5,000</u>	<u>3 weeks</u>
TOTAL	\$5,000	3 weeks

WORK ELEMENT 2 - TECHNICAL SUPPORT & DATA COLLECTION

This element outlines specific activities to be conducted in support of transportation planning tasks described in other UWP elements.

Task 2.1 Traffic Counting

OBJECTIVE:

To provide accurate and efficient traffic data collection services to the MassHighway and the PVPC's 43 member communities.

PREVIOUS WORK:

1. Regional Traffic Counting Program 1985 - 1999.
2. Traffic count library and database at PVPC.
3. Highway Performance Monitoring System (HPMS) data collection and analysis.
4. Regional Traffic Counts, 1992 – 1997.

PROPOSED ACTIVITIES:

1. Collect 48 hour traffic count data and GPS coordinates to assist in mapping at locations requested by MassHighway.
2. Collect HPMS data and perform analysis, as requested by MassHighway.
3. Update the PVPC traffic count library by supplementing the MassHighway count locations in the region and performing traffic counts for communities on a limited request basis.
4. Submit all traffic count data to the MassHighway and the appropriate community.
5. Conduct four monthly traffic counts to collect seasonal traffic information for the region and assist in the development of regional adjustment factors and growth rates.
6. Perform data collection activities for other UWP tasks including the Regional Transportation Model, Local Technical Assistance requests, and management systems.
7. Update and maintain the PVPC traffic count database.
8. PVPC will collect bicycle and pedestrian volumes at pre-determined locations.
9. PVPC will update the Regional Traffic Count report to reflect traffic counts between 1994 and 1999.

PRODUCTS:

1. Summary reports of daily traffic count information for the region.
2. Collect and document traffic counts for other UWP tasks as needed.
3. Seasonal adjustment factors and growth rates specific to the PVPC region.
4. Regional Traffic Count Report for 1994-1999.

Source	Budget	Est. Staff Effort
MassHighway PL	\$20,000	13 weeks
TOTAL	\$20,000	13 weeks

Task 2.2 Regional Travel Demand Modeling/Clean Air Planning

OBJECTIVE:

To maintain and advance the regional travel demand model of the Pioneer Valley Region as a tool for transportation planning and air quality

conformity. To develop certification documents, reports, and other materials that meet the goals of the Clean Air Act Amendments (CAAA), TEA-21 as it pertains to air quality planning, the State Implementation Plan (SIP), and the goals and objectives of the PVPC.

PREVIOUS WORK:

1. Development of the PVPC regional travel demand forecasting model.
2. Air quality conformity determinations for the RTP, TIP and at the request of MassHighway.
3. PVPC regional transit model.
4. 1998 Addendum to the 1997 Pioneer Valley Regional Transportation Plan.

PROPOSED ACTIVITIES:

1. Continue the refinement of PVPC's travel demand model using the 'TransCad' software to improve forecasts of highway and transit demand with consideration for changes in land use.
2. Work with the MassHighway Bureau of Transportation Planning and Development (MassHighway Planning) and the statewide Modeling Users Group for necessary improvements to the travel demand model for conformity determination purposes.
3. Work with MassHighway Planning to incorporate PVPC's regional travel demand model into a new statewide model.
4. Conduct air quality conformity determinations for the Regional Transportation Plan (RTP) and the Transportation Improvement Program (TIP) according to the Massachusetts SIP Transportation Conformity Regulations.
5. Perform air quality analysis to assist in the advancement of long term projects as recommend in PVPC's current RTP.
6. Perform air quality analysis for TIP projects to be funded under the Congestion Mitigation and Air Quality (CMAQ) program.
7. Perform air quality analysis for proposed projects to be funded under the New and Innovative Transportation Demand Management (TDM) program and the Transportation Enhancement program.
8. Promote travel demand management techniques for the benefit of air quality.
9. Coordinate air quality planning efforts with the MA DEP, MassHighway Planning the US EPA, the FHWA, the FTA, and other appropriate agencies.
10. Review proposed federal and state air quality & clean air regulations.
11. Develop a 2025 analysis year network for the model.

PRODUCTS:

1. Updated regional travel demand model.
2. Technical Memorandum on modeling activities.
3. Conformity statements and air quality support materials for the RTP and the TIP as necessary.
4. Memorandum on quantitative and qualitative evaluation criteria for TIP projects funded under the CMAQ program.
5. Comments on proposed federal and state regulations.

Source	Budget	Est. Staff Effort
MassHighway PL	\$30,000	20 weeks
FTA S. 5303	\$ 1,200	1 weeks
PVTA S. 5307	\$18,750	12 weeks
TOTAL	\$49,950	33 weeks

Task 2.3 GIS, Mapping and Graphics

OBJECTIVE:

Develop, maintain and archive digital geo-coded referenced data about the Pioneer Valley Region and its transportation systems. The GIS/Graphics Center looks to increase access to an extensive regional database; improve spatial analytical capabilities; and serve as a catalyst for cooperative development, exchange and distribution of map data. A strong emphasis will be placed on the development of high quality products which enhance decision-makers' understanding of complex issues and facilitate the implementation of local and regional goals.

PREVIOUS WORK:

1. Updated regional transit routes. Designated and coordinated publication of system maps.
2. Acquired and integrated relevant GIS Spatial data/map coverages generated at state and federal levels into the Pioneer Valley Regional archive.
3. Developed and maintained several spatial data layers to support transportation-related projects, including: functional classification of roads, traffic count locations, pavement conditions, Route 2 corridor conditions, regional bicycle and pedestrian infrastructure, welfare clients and places of employment, ADA transit service area, etc.
4. Completed review and update to Census Statistical Areas in preparation of U.S. Census 2000. Built regional digital coverage to revise census geography.
5. Expanded GIS archive capacity to support GIS State Data Library and promote access to data among Western Massachusetts users.
6. Sponsored periodic training sessions and forums to promote GIS in the Pioneer Valley Region.

PROPOSED ACTIVITIES:

1. Continue to develop and implement management strategies, which address staff training, establish agency data standards and conformance to map design that can be applied to all GIS products.
2. Pursue the use of GIS and other automated mapping and spatial analytical technologies for transportation applications. Enhance existing digital base map data and develop geographically referenced data layers for use in transit service analysis, regional land use & build-out analysis, air quality impact, resource assessment and highway system planning.
3. Integrate information generated to support transportation management systems into the GIS. Create maps and graphics to promote understandings to related issues.
4. Update analog and digital municipal base maps on a phased basis using aerial photography, digital orthophoto quads, municipal sources, field survey, and liaison with officials. Special attention will be placed on updating and correcting local road inventories.
5. Work with state and federal agencies to review, correct and enhance regional GIS map coverages and related data to meet state standards.
6. Upgrade GIS operating system and provide enhancements to the PVPC office network to improve access and the use of GIS data.
7. Implement regional GIS Service Center, designed to promote development of statewide GIS and related technologies; improve public access to digital data; provide technical support to

- municipalities interested in developing a GIS; and become a regional repository for the Massachusetts Data Library.
8. Organize a regional GIS advisory committee to assess regional information needs and provide direction to state and regional efforts to coordinate statewide GI development.
 9. Promote the agency and its efforts to resolve regional issues through published materials, thematic maps, distribution of information over the worldwide web, and educational multi-media presentations.

PRODUCTS:

1. Development of new and enhanced digital data layers.
2. Update to municipal planimetric base maps as necessary.
3. Transportation systems facility maps.
4. Survey of regional GIS resources and activity.
5. Design and publish a catalog of regional data.

Source	Budget	Est. Staff Effort
MassHighway PL	\$52,000	26 weeks
FTA S. 5303	\$ 4,800	3 weeks
PVTA S. 5307	\$ 6,250	4 weeks
EOEA Grant	\$29,540	11 weeks
TOTAL	\$92,590	44 weeks

Task 2.4 Information Center

OBJECTIVE:

To serve as an information resource supporting regional transportation, economic development, land use, and municipal planning by gathering, developing, and maintaining data about the Pioneer Valley region. Provide the public access to this information. In doing these, emphasis will be placed on creating value-added information, by analyzing and summarizing data as well as integrating related data derived from multiple sources.

PREVIOUS WORK:

1. Participant Statistical Areas Review in preparation of Census 2000.
2. Launched expanded Information Center website providing an assortment of demographic and economic data.
3. Information Exchange forum on data sources and needs.
4. *Major Employers Inventory*.
5. *Trends in Building Permits: 1988 to 1997*.
6. Community Profiles.
7. *Data Digest: Residential Property in the Pioneer Valley Region*.
8. Developed thematic mapping capacity.

PROPOSED ACTIVITIES:

1. Analyze data relevant to contemporary transportation, economic development, land use, and municipal planning issues.
2. Support efforts to develop and launch the agency's new regional transportation model.
3. Participate in the development of an updated regional transportation plan.
4. Disseminate information to decision-makers and other data users, including expanded use of the Internet.
5. Continue benchmarking project which tracks regional indicators and is incorporated in the *State of the Region* report.

6. Develop capacity to do regional economic modeling to support planning activities.
7. Maintain and update the unified information system, which is housed and managed in the Information Center. Continue integrating additional agency databases into the unified information system.
8. Continue working with the Inter-agency Committee on Population Statistics on the development of population estimates and projections.
9. Serve as the principal regional liaison to the U.S. Bureau of the Census. Coordinate region-wide preparations for Census 2000 and, when appropriate, assist the Bureau with other programs such as the American Community Survey.
10. Promote coordination and cooperation among data generators and data users emphasizing regional and local applications.
11. Assist the Plan for Progress Trustees with transportation related initiatives to encourage regional economic development.
12. Maintain industrial/commercial & brownfield sites databases and website.

PRODUCTS:

1. Analytical reports on region's demographic and economic trends, including a *State of the Region* report.
2. Regional economic model.
3. Expanded and updated Information Center website.
4. Data user forum.

Source	Budget	Est. Staff Effort
MassHighway PL	\$70,000	41 weeks
FTA S. 5303	\$ 1,200	1 weeks
PVTA S. 5307	\$ 1,250	1 weeks
TOTAL	\$72,450	43 weeks

Task 2.5 Regional Congestion Management System-Data Collection

OBJECTIVE:

To continue the advancement of the Congestion Management System (CMS) data collection in the Pioneer Valley. Travel time data will be used to identify congestion areas and monitor the effectiveness of congestion mitigation strategies.

PREVIOUS WORK:

1. Development of the PVPC CMS database.
2. Travel time data runs to identify and verify congested areas.

PROPOSED ACTIVITIES:

1. Collect data for CMS problem verification, studies, regional model calibration, and transportation monitoring.
2. Collect data at existing park and ride facilities in the region.

PRODUCTS:

1. Updated Pioneer Valley CMS Database.
2. Update to the annual CMS Summary Report.

Source	Budget	Est. Staff Effort
MassHighway PL	\$2,500	2 weeks
PVTA S. 5307	\$1,250	1 weeks
TOTAL	\$3,750	3 weeks

Task 2.6 Regional Pavement Management System - Data Collection

OBJECTIVE:

To continue data collection for the Pioneer Valley Pavement Management System (PMS) on all federal aid roadways.

PREVIOUS WORK:

1. Development of PVPC regional PMS database.
2. Collection of roadway condition information for all federal aid eligible roadways in the PVPC region.

PROPOSED ACTIVITIES:

1. Collect roadway condition information including but not limited to ride, distress, rutting, conditions that adversely impact surface friction.
2. Collect additional roadway information such as posted speed and shoulder width.
3. Maintain and refine the MassHighway Roadway Inventory database for the Pioneer Valley Region.
4. Conduct quality control checks of inventory data and condition data.
5. Submittal of findings to MassHighway on a regular basis.

PRODUCTS:

1. Pioneer Valley regional PMS Database.
2. Community Pavement Condition Index Maps.

Source	Budget	Est. Staff Effort
MassHighway PL	\$34,000	22 weeks
TOTAL	\$34,800	22 weeks

WORK ELEMENT 3 - REGIONAL TRANSPORTATION PLANNING

This work element provides transportation planning that directly supports the development of projects included in the Regional Transportation Plan (RTP) or the development of RTPs.

Task 3.1 Regional Transportation Plan

OBJECTIVE:

To review, refine and maintain the Regional Transportation Plan (RTP) for the Pioneer Valley Region. To continue refinement of short and long range forecasts affecting the transportation demands and needs of the region.

PREVIOUS WORK:

1. Pioneer Valley Regional Transportation Plan – 1993, 1997
2. 1998 Addendum to the 1997 Pioneer Valley Regional Transportation Plan.
3. FHWA regional freight survey, 1998.

PROPOSED ACTIVITIES:

1. Refine the 1997 RTP through an aggressive public outreach program.
2. Review and refine the goals, policies and objectives of the RTP based on the comments received.
3. Incorporate new data and analysis from appropriate regional studies such as the Plan for Progress, Regional Land Use Plan, and Intelligent Transportation System Regional Deployment Plan for the Pioneer Valley.
4. Conduct ongoing consultation with state and federal agencies to ensure compliance with state and federal policy. Conduct regional forums and participate in meetings.
5. Develop a new 2025 horizon year for the RTP to allow for the required minimum twenty-year horizon throughout the life of the Regional Plan.
6. Solicit involvement by major shippers and local freight carriers in ongoing and proposed future transportation planning studies.
7. Collect data to support a freight layer for the regional transportation model.
8. Inventory existing operators to update the 1997 Regional Transportation Plan.

PRODUCTS:

1. Outline of RTP components by October 31, 1999.
2. Draft Regional Transportation Plan by January 31, 2000.
3. Final Regional Transportation Plan by April 30, 2000.
4. Updated list of major freight carriers in the PVPC region.

Source	Budget	Est. Staff Effort
MassHighway PL	\$63,410	37 weeks
FTA S. 5303	\$11,561	9 weeks
PVTA S. 5307	\$ 2,312	2 weeks
TOTAL	\$77,283	48 weeks

Task 3.2 Transit System Surveys and Route Implementation

OBJECTIVE:

Conduct an onboard system survey for the Springfield based PVTA System. The survey is intended to provide the PVTA with a clear understanding of the current riders as well as to create benchmarks of customer satisfaction, customer needs and concerns.

PREVIOUS WORK:

1. Route 700/Minuteman Express ridership survey.
2. Route Red 10 ridership survey.
3. Route Purple 20 ridership survey.
4. Route Green 01 ridership survey.

PROPOSED ACTIVITIES:

1. Develop a methodology to conduct a system survey that can be used in future years.
2. Working with PVTA and its operator to evaluate the questions on the surveys in order to collect all necessary information.
3. Conduct on-board surveys PVTA routes in the southern half of the systems to identify rider characteristics, performance of routes, and service levels.
4. Analyze the results of the on-board surveys to determine characteristics of average users.

PRODUCTS:

1. Creation of the survey methodology to be carried forward to future years.
2. An onboard ridership report on Springfield based PVTA system.

Source	Budget	Est. Staff Effort
FTA S. 5303	\$17,232	11 weeks
PVTA S. 5307	\$25,000	16 weeks
TOTAL	\$42,232	27 weeks

Task 3.3 East Longmeadow Rotary Study

OBJECTIVE:

In cooperation with a private consultant under contract with the PVPC, the East Longmeadow Rotary Studied will be completed. A series of short and long range recommendations geared towards improving safety and congestion in this area will be tested.

PREVIOUS WORK:

1. Route 20 Corridor Study – West Springfield/Westfield.
2. Boston Road Corridor Study – Springfield/Wilbraham.
3. Route 10/202 Corridor Study – Southwick/Westfield.
4. Consultant Selection Committee – East Longmeadow Rotary Study.

PROPOSED ACTIVITIES:

1. Complete data collection activities including traffic counts, travel times, accident research, origin/destination survey, and small business survey.
2. Design and distribute a large business questionnaire to determine the travel characteristics of trucks in the study area.
3. Develop a travel demand model for the study area.
4. Analyze existing travel characteristics including intersection capacity analysis, safety analysis and speed studies.

5. Perform a build out analysis for the 2010 horizon year for the study area.
6. Develop and evaluate feasible improvement alternatives to address existing and future deficiencies.
7. Conduct public meetings to discuss preferred improvement alternatives.

PRODUCTS:

1. Documentation for each stage of the study including, Scope of Work, existing and future conditions, maps and graphics.
2. Travel Demand Model for the study area.
3. Map of preferred improvement alternatives.
4. Final Report.

Source	Budget	Est. Staff Effort
MassHighway PL	\$15,000	10 weeks
MassHighway SPR	\$70,000	36 weeks
TOTAL	\$85,000	36 weeks

Task 3.4 Jacob's Ladder Trail Scenic Byway Project

OBJECTIVE:

The work of Phases VI, VII, VIII and IX of this project will continue corridor management, planning, and construction along the Jacob's Ladder Trail. This includes the removal of existing billboards in Lee on the Trail and research to produce a mobile history exhibit and publish an illustrated catalogue of the exhibit.

PREVIOUS WORK:

1. Phase I of Jacob's Ladder Trail Scenic Byway Project (Russell, Huntington, Chester, Becket, Lee), 1992-93.
2. Phase II of Jacob's Ladder Trail Scenic Byway Project (Russell, Huntington, Chester, Becket, Lee), 1993-94.
3. Phase III of Jacob's Ladder Trail Scenic Byway Project-partial (Russell, Huntington, Chester, Becket), 1994-95.
4. Phase IV and V of Jacob's Ladder Trail Scenic Byway Project (Russell, Huntington, Chester, Becket and Lee) 1995-99.

PROPOSED ACTIVITIES:

1. Continue Phase VI activities include additional planning, design and construction. A mobile exhibit on the history of the roadway, its construction, early travelers and their vehicles, existing and lost roadside amenities, early tourism accounts and touring destinations will be researched and written. A separate contractor will construct a display and publish an exhibit catalog.
2. Elimination of billboards on Jacob's Ladder Trail in Lee that block views of the Housatonic River will be undertaken in conjunction with the town's recently enacted zoning bylaws.
3. Phase VII of Jacob's Ladder Trail Scenic Byway Project (Russell, village of Woronoco) 1999-2000. In accordance with the corridor management plan's aim to provide recreational opportunities for public, this project is to construct a handicapped-accessible walking/hiking trail beside the Potash Brook in Russell on a former state highway bed and on land donated to the Town of Russell by a local industry. In addition to an accessible pathway, a fishing deck for trout fishing in the brook, several interpretive signs concerning the area's natural resources, rest benches and a picnic spot will be

constructed as part of this project. Construction will be accomplished by a contractor. This work is funded but not under Contract.

4. Phase VIII of Jacob's Ladder Trail Scenic Byway Project. This work is funded but not under Contract.
 - a) The Trail-side parking lot will be placed in a state-owned turnout and will accommodate approximately five vehicles for hikers who enter the Appalachian Trail from Route 20 and who currently park on the shoulder of the road in a dangerous, illegal manner. This is a construction project by a contractor to improve safety of access to recreational facilities on the scenic byway.
 - b) Hire a consultant to produce a marketing plan to address short- and long-range efforts to increase public awareness of the Scenic Byway as a tourist destination. The marketing plan will be designed for a rural scenic byway wishing to attract tourists and, by extension, additional community development.
5. Phase IX of Jacob's Ladder Trail Scenic Byway Project
 - a) Prepare a press kit as a strategy of the marketing plan to improve public awareness of the Scenic Byway.
 - b) Construct two spur trails and a wetlands boardwalk connection to the Appalachian Trail where it crosses the Scenic Byway in Lee and Becket. This is the same site as the parking lot improvements in Phase VIII and will enhance access and further improve this important recreational area.
 - c) Develop plans and schematic drawings for the restoration and improvement to a park in Chester including plans to convert a railroad bed in the park to a walking trail. Crossed by Walker Brook, this park is unused and will provide universal access for a recreational trail, games and nature study.

PRODUCTS:

1. Press kits for distribution to media, travel companies and regional tourism bureaus as a marketing strategy.
2. Two spur trails and a boardwalk to improve access and provide educational opportunity to hikers on this portion of the Appalachian Trail. Two additional signs announcing trailhead.
3. Plans and schematic designs for the restoration and improvements to a park in Chester.
4. Removal of three billboards.
5. A mobile history exhibit of Jacob's Ladder Trail and an illustrated catalogue of the exhibit.

Source	Budget	Est. Staff Effort
FHWA Scenic (committed)	\$286,516	31 weeks
MassHighway Match (committed)	\$71,629	8 weeks
FHWA Scenic (anticipated)	\$84,000	9 weeks
MassHighway Match (anticipated)	\$21,000	2 weeks
TOTAL*	\$463,145	50 weeks

** also includes direct costs*

Task 3.5 Regional Congestion Management System-Project Development

OBJECTIVE:

To continue the advancement of the Congestion Management System (CMS) Work Plan in the Pioneer Valley region to maximize mobility of persons and goods. The results of the CMS will be integrated into the transportation planning and air quality process and will be used to develop the RTP and TIP.

PREVIOUS WORK:

1. Traffic and Parking Study – Downtown Easthampton.
2. Route 20 Corridor Study.
3. CMS Annual Reports for the Pioneer Valley.

PROPOSED ACTIVITIES:

1. Work with communities, the Pioneer Valley Transit Authority (PVTA), the MassHighway, and other appropriate agencies to develop strategies to mitigate congestion problems through appropriate means.
2. Revise the Regional Transportation Model as necessary for improved CMS problem identification and strategy alternative testing.
3. Solicit public participation in CMS activities.
4. Perform short transportation studies as necessary to assist in the selection of alternatives to address existing and anticipated deficiencies. Potential study locations include:
 - a) Perform a traffic study at the intersection of Route 147 with Route 159 and Route 75 and the intersection of Route 147 with Walnut Street. The relatively short distance between these two intersections along with retail and uses along both sides of Route 147 contribute to congestion in this area. PVPC will perform an analysis of existing conditions and develop potential improvement alternatives including an analysis of the effect of coordinated traffic signals.
 - b) The intersection of Bay Road with Roosevelt Avenue in Springfield experiences severe congestion, resulting in long delays to motorists. PVPC will perform peak hour turning movement counts and perform analysis to optimize the existing traffic signals at this intersection. Additional recommendations such as exclusive turn lanes and potential turn restrictions will also be considered.
 - c) Conduct a traffic study for the intersections in the vicinity of the Deady Memorial Bridge in Chicopee. The intersections of Route 33 with Montgomery Street and Sheridan Street, Route 33 with Grattan Street, Route 33 with Main Street, East Main Street, and East Street, and East Street with Broadway all experience severe peak hour congestion. PVPC will perform an existing conditions analysis and make recommendations to improve the flow of traffic in this area.
 - d) Additional locations as defined by PVPC communities.

PRODUCTS:

1. Memorandums on CMS tasks as outlined by the Technical Team.
2. Monthly status reports to MassHighway as part of the routine invoicing.
3. Annual reports to MassHighway.

4. Traffic studies, analyses, and/or recommendations as discussed above.

Source	Budget	Est. Staff Effort
MassHighway PL	\$35,000	23 weeks
FTA S. 5303	\$ 3,750	2 weeks
TOTAL	\$38,750	25 weeks

Task 3.6 Regional Pavement Management System - Project Development

OBJECTIVE:

To maintain a regional Pavement Management System on all federal aid eligible roadways and prioritize regional pavement improvement projects.

PREVIOUS WORK:

1. Regional PMS report for the Pioneer Valley Region.
2. PMS report on federal aid eligible roadways for individual communities in the Pioneer Valley region.
3. Pavement Condition work maps on federal aid eligible roadways for all PVPC communities.

PROPOSED ACTIVITIES:

1. Participate in the pavement management users group.
2. Analysis of roadway segment conditions collected under Task 2.7 Regional Pavement Management–Data Collection, including the calculation of Pavement Condition Index ratings and benefit/cost ratio analyses.
3. Assist in the prioritization of pavement projects included as part of the Pioneer Valley TIP.
4. Provide municipalities with condition and analysis information as available.
5. Documentation of PMS activity will be presented in the next update to the Pioneer valley RTP.

PRODUCTS:

1. Monthly status reports to MassHighway.
2. Pavement condition work maps on each community's surveyed federal aid eligible roadways.
3. Regional PMS activity report.

Source	Budget	Est. Staff Effort
MassHighway SPR	\$16,500	11 weeks
TOTAL	\$16,500	11 weeks

Task 3.7 Bradley Airport Study

OBJECTIVE:

Bradley Airport, located in Windsor Locks, CT, is the major air transportation center for the Pioneer Valley Region. The objective of this task is to perform a study of the existing roadway and transit infrastructure in the PVPC region to determine if it is sufficient to support the future needs of the airport. This study is expected to be conducted in conjunction with the Capital Region Council of Governments (CRCOG).

PREVIOUS WORK:

1. Route 20 Corridor Study – West Springfield/Westfield.
2. Boston Road Corridor Study – Springfield/Wilbraham.
3. Route 10/202 Corridor Study – Southwick/Westfield.

PROPOSED ACTIVITIES:

1. Coordinate the scope of work, timeframe and format of the study with CRCOG.
2. Establish a committee comprised of local officials and transportation providers to the airport to determine their concerns regarding access to the airport.
3. Perform the necessary data collection such as traffic counts and peak hour travel time runs to supplement the information received under Task #2.
4. Conduct existing conditions analysis.
5. Prepare a forecast of future conditions including an estimate of economic growth expected to occur in the vicinity of the airport.
6. Adjust the PVPC transportation model as necessary to incorporate the data collected as part of the study.
7. Develop viable improvement alternatives and analyze using the regional transportation model or appropriate off-model software.
8. Prepare both access management plans and incident management plans for major routes to the airport.

PRODUCTS:

1. Bradley Airport Traffic Study for the PVPC region.

Source	Budget	Est. Staff Effort
MassHighway PL	\$17,000	10 weeks
TOTAL	\$17,000	10 weeks

Task 3.8 Regional Studies**OBJECTIVE:**

To provide comprehensive roadway planning services for the constituent communities of the Pioneer Valley Planning Commission. To conduct roadway planning activities and analyses for upcoming projects that are regionally significant or involve more than one community.

PREVIOUS WORK:

1. Air quality conformity information for the Basketball Hall of Fame DEIR.
2. Development of a FRCOG/PVPC 1999 regional transportation model.
3. Atkins Corner Traffic Study – Amherst.
4. Amherst downtown parking survey.

PROPOSED ACTIVITIES:

1. Continue efforts to assist MassHighway, Amherst, Hadley and Northampton with construction mitigation activities along the Route 9 corridor.
2. Review studies and assist in developing appropriate traffic mitigation plans for regionally significant projects such as the expansion of Riverside Park, Riverfront Development in Springfield, and the redevelopment of the Northampton State Hospital.
3. Perform data collection at regional employers to develop local parking generation ranges for various land uses.
4. Conduct travel time runs between local activity centers for use in calibration of the regional transportation model.
5. Revise the regional transportation model as necessary to improve problem identification and strategy alternative testing.
6. Perform traffic calming and truck exclusion route studies as requested by member communities.

- Continue efforts to develop a recreational/non-motorized layer for the regional transportation model.

PRODUCTS:

- Appropriate reports for each activity.

Source	Budget	Est. Staff Effort
MassHighway PL	\$35,000	21 weeks
FTA S. 5303	\$ 2,400	1 weeks
TOTAL	\$37,400	22 weeks

Task 3.9 Intelligent Transportation Systems (ITS) - Strategic Planning

OBJECTIVE:

To promote and advance the implementation of the Intelligent Transportation System Strategic Deployment Plan for the Pioneer Valley.

PREVIOUS WORK

- ITS Strategic Deployment Plan for Metropolitan Springfield and Pioneer Valley Region.
- Incident Management diversion route maps.
- Mohawk Trail Traveler Information System Working Committee.

PROPOSED ACTIVITIES:

- Incorporate the ITS Strategic Deployment Plan Goals into the update to the Regional Transportation Plan.
- Serve as a member on ITS Project Steering Committees such as the Route 2 Informational Kiosk Committee, the Route 9 ITS project, and the Umass ITS project.
- Convene Meetings and provide technical support for the I-91 Incident Management Coalition.
- Work with communities to incorporate the FHWA ITS National Architecture into future improvement projects.

PRODUCTS:

- Recommendations and comments as necessary as part of Steering Committee activities.
- Technical Memoranda and reports as appropriate.

Source	Budget	Est. Staff Effort
MassHighway PL	\$15,000	8 weeks
TOTAL	\$15,000	8 weeks

Task 3.10 Transit Economic Development and Access to Jobs - Regionwide Studies/Programs

OBJECTIVE:

To positively respond to the provisions of federal welfare reform legislation, enacted in 1996, which mandates a concerted nationwide effort to move individuals off welfare and into work. Accordingly, the principal mission of this task will be to: address the specific needs and circumstances of the Pioneer Valley Region; address and overcome major barriers to transport welfare recipients to and from job opportunities; and, identify and implement a unique combination of fixed-route bus services, innovative service designs, dial-a-ride services, service coordination techniques and technology-based tools that respond to the needs of welfare recipients who live in the Pioneer Valley.

PREVIOUS WORK

1. Participation in the region-wide Welfare-to-Work Task Force and Hampden County SDA Quartet Meetings.
2. Updated region-wide databases and GIS maps of Welfare clients.
3. Creation of Regional Job Access and Reverse Commute Transportation Plan

PROPOSED ACTIVITIES:

1. Update and maintain relevant socioeconomic data for the Pioneer Valley Region from the U.S. Census and other reliable data sources. Utilize compiled data to construct a useful, regional database which can be used for planning and decision-making purposes.
2. Update relevant data on welfare clients living within the confines of the Pioneer Valley Region from federal and state social service agencies and other reliable data sources. Utilize compiled data to maintain a useful, regional database which can be used for planning and decision-making purposes.
3. Develop, in consultation with the PVTA and others, public transit service delivery and/or management options which can link welfare recipients to job opportunities in urban, suburban and outlying locations including fixed route, dial-a-ride and innovative services operated under the auspices of the PVTA and contracted operators. Address the possible modification of existing PVTA services, as well as new services, to address major service delivery gaps which may exist within PVTA's 23 member community service district.
4. Conduct studies of PVTA routes and services that have been created or expand under the access to jobs program or the access to jobs reverse commute program. These studies should identify opportunities for improved or more efficient service, including conducting and analyzing on-board surveys, developing route planning guidelines for comparisons of costs, service levels, and performance of routes, and monitoring the quality of existing and experimental transit service.
5. Create and maintain data on employment demographics and industrial locations that may effect the new, expand or existing PVTA services and routes. Assist the PVTA in outreach with employers.
6. Develop innovative services and/or techniques with potential for successful application in the Pioneer Valley Region or sub-areas thereof including auto repair training/buy back programs; low cost auto lease-back programs; transportation mobility vouchers; shared ride taxi and/or van services, brokered ride matching programs; and employer-subsidized worker transportation services, among others.
7. Coordinate planning efforts outlined herein with economic development agencies/officials, worker placement/training agencies, development corporations, colleges and universities, career centers and other interested and/or involved agencies and organizations which are assisting welfare clients to move off the welfare rolls and into meaningful and lasting job opportunities. Similarly, directly participate in the deliberations of relevant advisory boards, task forces and commissions, including but not limited to the Plan for Progress Workforce Development/Readiness Task Force; the Regionwide Welfare-to-Work Task Force convened by the Hampden County Regional Employment Board (REB); the Economic Development Council of Western Massachusetts, the Regional Economic Development Partners, the regions two operational career centers namely: Future Works in Springfield and Career Point in

Holyoke and the new career center to be established in Hampshire County.

8. Prepare GIS work and presentation maps which can assist in ongoing efforts to identify the number and location of welfare clients and to connect this targeted "customer group" with existing or new transportation mobility services whether traditional (e.g. fixed-route bus service) or innovative (e.g. fixed route diversion bus service for outlying rural communities).
9. Prepare draft and final versions of technical reports, memoranda, maps, graphics, GIS-mapping products, service plans, grant applications, and technical assistance efforts which individually and collectively can significantly improve the day-to-day mobility of welfare clients in order to access jobs and other critical support services thereby helping to meet the key tenets of 1996 federal welfare reform legislation.

PRODUCTS:

1. Regionwide database of relevant socioeconomic data tied to the Pioneer Valley Region and adjacent metropolitan regions (e.g. Greater Hartford metropolitan area) as necessary and appropriate.
2. Regionwide database of relevant welfare clients tied to the PVPC's planning district which encompasses 43 cities and towns - approximately half of which are also served by the PVRTA at this time.
3. GIS maps and data layers drawn from the above-cited databases to inform and guide the regionwide, transportation and economic development planning activities of the PVPC such as the number of welfare clients in need of a job which can potentially access existing PVRTA fixed-route or Paratransit services.
4. Technical reports, memoranda, surveys, computerized databases, GIS and other map products, meetings, workshops, forums, grant applications, project proposals, web page materials, etc. which are produced in conjunction with the execution of this work task during 1999-2000.
5. Program planning for the development of the Good News Garage Massachusetts Program or similar program in the outlying and non PVRTA member communities in the region.
6. Prepare an updated draft and final version of the Pioneer Valley Regional Job Access Plan to be incorporated into the next RTP Update.
7. Forum for employers on benefits of transit and the Access to Jobs program.

Source	Budget	Est. Staff Effort
PVRTA S. 5307	\$25,000	13 weeks
TOTAL	\$25,000	13 weeks

Task 3.11 Connecticut River Walk & Bikeway Coordination

OBJECTIVE:

The Connecticut River Walk and Bikeway is a regional pedestrian and bicycle facility which will serve the communities of Agawam, Chicopee, Holyoke, Longmeadow, Springfield and West Springfield. Each of these communities and PVPC participate in a regional task force to oversee planning, design and construction of this project. The objective of this task is to provide planning services and technical assistance to the Connecticut River Walk and Bikeway Committee in the implementation of this key regional facility.

PREVIOUS WORK:

1. Non-Motorized Plan for the Pioneer Valley Region.

PROPOSED ACTIVITIES:

1. Coordinate meetings of the Connecticut River Walk and Bikeway Committee, including meeting notices, materials, minutes and staff support.
2. Provide intercommunity liaison services and technical assistance to communities in project planning, design and construction issues on an ongoing basis..
3. Provide information to the general public about project development, through media releases, public meetings and events, and informational materials developed specifically for the project..

PRODUCTS:

1. Connecticut River Walk and Bikeway Committee meetings and activities, as needed.
2. Technical Assistance to communities.
3. Public information materials and meetings.

Source	Budget	Est. Staff Effort
MassHighway PL	\$5,000	3 weeks
TOTAL	\$5,000	3 weeks

Task 3.12 Maple Street Bridge Project, Chester**OBJECTIVE:**

The Maple Street bridge is located adjacent to Route 20 and connects Route 20 to Chester Factory Village, Chester's commercial center, by crossing the West Branch of the Westfield River. In deteriorated condition, the bridge has been closed to pedestrian and vehicular traffic for a number of years. This project will provide a second means of crossing the Westfield River in case of emergency.

PREVIOUS WORK:

1. Phase I of Jacob's Ladder Trail Scenic Byway Project (Russell, Huntington, Chester, Becket, Lee), 1992-93.
2. Phase II of Jacob's Ladder Trail Scenic Byway Project (Russell, Huntington, Chester, Becket, Lee), 1993-94.
3. Enhancement Grant, ISTEPA Program, 1996-97.

PROPOSED ACTIVITIES:

1. Rehabilitate the bridge for vehicle and pedestrian use.

PRODUCTS:

1. Rehabilitated bridge, abutments and approach.

Source	Budget	Est. Staff Effort
Transportation Enhancement Funds	\$614,288	50 weeks
TOTAL	\$614,288	50 weeks

WORK ELEMENT 4 - ONGOING TRANSPORTATION PLANNING

This element outlines specific activities to be conducted in support of Transportation Planning tasks described in other UWP elements.

Task 4.1 Regional Transit Planning

OBJECTIVE:

To provide comprehensive planning services for the Pioneer Valley Transit Authority and its member municipalities. To conduct transit route studies, organizational and management analyses, market surveys and operational analyses as needed to improve system efficiency and respond to changes in the user market.

PREVIOUS WORK:

1. Palmer Transit Feasibility.
2. Bus stop location analysis.
3. On-time performance analysis.
4. Assistance in transit consultant selection.
5. Park and Ride lot studies.
6. Organizational and managerial support to the PVTA.

PROPOSED ACTIVITIES:

1. Conduct studies of PVTA routes to identify opportunities for improved or more efficient service, including conducting and analyzing on-board surveys, developing route planning guidelines for comparisons of costs, service levels, and performance of routes, and monitoring the quality of existing and experimental transit service.
2. Review and analyze land use and development issues as they pertain to existing or future transit services and facilities, and identify new and potential trip generators, including new employment locations, retail centers, and housing developments.
3. Review and analyze suggested transit service changes as requested by the PVTA member communities and staff, and by non-PVTA communities in the region. Develop short-range recommendations for consideration by the PVTA and affected communities. Assist as needed in the research and analysis of service requests submitted to the PVTA route committee.
4. Provide assistance to the PVTA on request in support of PVTA operations and management. Conduct requested cost studies, contractor performance analyses, consultant evaluations and other management studies.
5. Obtain and adapt relevant software for use as needed, including the development of database or GIS for specific projects, in consultation with the PVTA.
6. Participate in PVTA organized focus group meetings regularly.
7. Assist PVTA in the research of system safety improvements. Create a mechanism for PVTA and its operators to track safety incidents.
8. Continue to assist the PVTA in developing new transportation programs in response to Welfare reform initiatives, including the Access to Jobs Program and the Job Access and Reverse Commute Program.
9. Assist the PVTA in the development of the Transit Enhancement Program. With the input of member communities, the public and PVTA identify projects for the enhancement program. In consultation with PVTA create a selection process to create priority list of projects.

10. Assist the PVRTA with the creation of the Adopt-a-Bus Stop program and provide any need support to the administration of the program.
11. Provide GIS Data development to support PVRTA fixed route scheduling and information software systems.
12. Assist PVRTA in their efforts to redevelop the Union Station project into a new Regional Intermodal Transportation Center.

PRODUCTS:

1. Reports and memoranda describing technical assistance provided to PVRTA and its member communities.
2. Summary materials furnished to PVRTA in support of operations and management, including periodic management studies, consultant ratings, on-board surveys and analyses, etc.
3. Reports for a series of route ridership surveys.
4. Finalize the inventory of PVRTA bus stop locations and associated characteristics.
5. Informational material to assist PVRTA customers in using the service, including schedules, stop locations, and attraction information.
6. Implementation of the PVRTA adopt a bus stop program
7. Creation of a prioritized list of projects for PVRTA Transit Enhancements Program and any required assistance needed for implementation.
8. Deliver PVPC created digital data needed for schedule, paratransit and information software systems.

Source	Budget	Est. Staff Effort
FTA S. 5303	\$22,800	15 weeks
PVRTA S. 5307	\$70,500	47 weeks
TOTAL	\$93,300	62 weeks

Task 4.2 Paratransit Planning Assistance

OBJECTIVE:

To continue to plan for the provision of special transportation services for the elderly and disabled. To provide technical assistance to the PVRTA, the communities, human service agencies, private sector entities and other parties involved in meeting special transportation needs. To formulate strategies to encourage increased coordination of special services. To fulfill the planning and programming requirements of the US DOT Section 504 regulations and other planning requirements under the Americans with Disabilities Act, which became law in 1990.

PREVIOUS WORK:

1. Annual coordination and technical assistance to organizations seeking capital grants under FTA Section 16(b)(2) and the State Mobility Assistance Program.
2. Development of a regional disabled database.
3. Development of the ADA Complementary Paratransit Plan.
4. Development of a searchable database to identify eligible paratransit service locations.

PROPOSED ACTIVITIES:

1. Assist the Pioneer Valley Transit Authority (PVRTA) in continuing to plan for actions that are needed to comply with regulations promulgated under the Americans with Disabilities Act; including the evaluation of the operating policies, setting up of a public participation program, survey analysis of recent operational consolidations, and operational analysis of individual paratransit operations as needed.

2. Provide technical and administrative support to the Joint Transportation Committee on mobility issues and problems of relevance to elderly and disabled persons.
3. Provide guidance to applicants for 16(b)(2) and State Mobility Assistance Program awards concerning program requirements and service coordination options.
4. Provide assistance to the PVTa in the development of report criteria for paratransit operators.
5. Provide planning and other technical assistance to the regional Human Service forum and its members to improve the efficiency of the transportation services they provide.
6. GIS Data development to support PVTa paratransit scheduling and information software systems.

PRODUCTS:

1. Memoranda and reports concerning special transportation services as well as paratransit service studies.
2. Technical assistance to applicants for FTA Section 16(b)(2) and State Mobility Assistance Awards.]
3. Participation in a Regional meeting on transportation issues for the members of the Human Services Forum.
4. Deliver PVPC created digital data needed for schedule, paratransit and information software systems.

Source	Budget	Est. Staff Effort
FTA S. 5303	\$ 6,000	4 weeks
PVTa S. 5307	\$ 5,000	3 weeks
TOTAL	\$11,000	7 weeks

Task 4.3 Implementing the Regional Land Use Plan

OBJECTIVE:

The objective of this task is to implement "Valley Vision, the Regional Land Use Plan for the Pioneer Valley" region, which: promotes compact, efficient urban growth centered around existing urban and town centers, served by existing transportation and other public infrastructure and services; discourages urban sprawl, inefficient land use, and development in environmentally sensitive areas; helps the region meet air quality goals by reducing auto trips and promoting use of transportation alternatives, such as transit, walking, biking and car-pooling.

PREVIOUS WORK:

1. Valley Vision, the Regional Land Use Plan for the Pioneer Valley.
2. Growth Management Workbook.
3. Technical Assistance for the Atkins Corner project in the Town of Amherst.

PROPOSED ACTIVITIES:

1. Work with two selected model communities to implement specific strategies from Valley Vision. These strategies may include new local zoning bylaws and land use regulations, and policies on infrastructure improvements/extensions.
2. Provide ongoing technical assistance to communities across the Pioneer Valley on an as-needed basis to implement Valley Vision strategies.

PRODUCTS:

1. Working paper summarizing assistance provided to two model communities, and regionwide technical assistance provided, to implement strategies from Valley Vision.

Source	Budget	Est. Staff Effort
MassHighway PL	\$10,000	6 weeks
PVTA S. 5307	\$10,000	6 weeks
TOTAL	\$20,000	12 weeks

Task 4.4 Pedestrian, Transit and Bicycling Promotion**OBJECTIVE:**

Reduce vehicle miles traveled in the region by providing local technical assistance to area communities to implement recommendations in the newly revised VMT reduction workbook, now called "Pedestrian, Transit and Bicycling Workbook". Improve air quality in the region by supporting bicycling as a viable transportation option

PREVIOUS WORK:

1. Revision of VMT Reduction Handbook.
2. Regional technical assistance campaign to facilitate implementation of VMT Reduction Workbook recommendations.

PROPOSED ACTIVITIES:

1. Develop and implement training to promote the recently published Pedestrian, Transit and Bicycling Workbook.
2. Provide local technical assistance to implement recommended activities in the Workbook.
3. Work with PVTA and member communities to assure understanding of transit options in the region.
4. Coordination of a Bike Commute week--public information and education on air quality and traffic congestion problems and information, training, and encouragement of bicycling as a non-polluting transportation option.
5. Promotion and development of Bike Infrastructure at targeted municipalities and employers--both physical and policy via technical assistance and installation of bike parking facilities and bike racks on buses.
6. Sustainability--Assure Ongoing Bike and other Alternative Transportation--via the creation and publicity of an "alternative commute-prevent air pollution" program, which all residents will be encouraged to participate in.
7. Development of a "How to" kit for other regions/municipalities, presentations at conferences and final report writing.

PRODUCTS:

1. A training session for planners and planning board members on land use and transportation tools and techniques to promote walking, biking and transit at the community level.
2. Model bylaws.
3. Public information piece on transit options and how communities can work cooperatively with PVTA to promote transit.
4. Public information and education materials promoting bicycling and other alternative modes--posters on buses, radios PSAs, news articles, flyers
5. Revised regional bike map
6. "Alternative commute-prevent air pollution" program

7. "How To" kit

Source	Budget	Est. Staff Effort
MassHighway PL	\$6,400	4 weeks
TDM Funds	98,200	30 weeks
TOTAL	\$104,600	34 weeks

Task 4.5 Regional Bicycle and Pedestrian Planning

OBJECTIVE:

To assist area communities and local non-motorized advocacy groups to develop non-motorized facilities specified in the Bicycle and Pedestrian Plan by providing technical assistance and planning that supports these projects.

PREVIOUS WORK:

1. Refined regional pedestrian/bicycle map.
2. Facilitated Pedestrian Access/Circulation plan for the city of Springfield and organized Pedestrian Circulation Facilitator Training for Planners around the Commonwealth.
3. Provided factual information regarding the advantages and disadvantages, costs and benefits of bicycle and pedestrian related projects and programs to communities in the Pioneer Valley.

PROPOSED ACTIVITIES:

1. Provide technical assistance to area communities to develop and/or implement programs to improve conditions for pedestrians and bicyclists.
2. Provide technical assistance to area communities to facilitate changes to existing bylaws to create environments that promote walking and biking.
3. PVPC staff will provide reference information to local communities on bicycle and pedestrian related projects and programs.
4. PVPC staff will review highway projects that significantly impact bicycle and pedestrian modes of travel, including projects identified in the Regional Bicycle and Pedestrian Plan.
5. Facilitate implementation of the Regional Bicycle and Pedestrian Plan.
6. Facilitate local efforts to implement traffic calming in areas of high pedestrian traffic.
7. Facilitate the development of incentive program to encourage employees and students to bike or walk to work or school.
8. Establish a non-motorized transportation committee to assist in the implementation of the Regional Bicycle and Pedestrian Plan.
9. Perform bicycle and pedestrian counts along the Norwottuck Trail, and other multi-use facilities to establish peak hours of use and seasonal fluctuations.
10. Re-activate the non-motorized transportation committee and charge them with oversight and of implementation of the regional bike and pedestrian plan.
11. Work with local law enforcement and the Registry of Motor Vehicles to improve crash report procedures for bicycle and pedestrian injuries.
12. Develop model sidewalk maintenance bylaws and bicycle parking bylaws.
13. Conduct a feasibility study for the implementation of bike lanes in a member community using the Regional Bicycle Level of Service Model.

PRODUCTS:

1. Western Region Enhancement Program Guidelines Workshop (with BTP&D).
2. Bicycle level of service evaluations for member communities.
3. Model sidewalk maintenance bylaw.
4. Model bicycle parking ordinance.
5. Active non-motorized committee.
6. Status reports on Regional Bicycle and Pedestrian Plan efforts.
7. Bike lane feasibility study

Source	Budget	Est. Staff Effort
MassHighway PL	\$33,000	22 weeks
PVTA S. 5307	\$10,000	6 weeks
TOTAL	\$43,000	28 weeks

Task 4.6 Local Technical Assistance**OBJECTIVE:**

To provide technical resources and support for member communities and organizations by responding to specific requests in a timely and cost effective manner. To review transportation related impact reports, traffic studies, and environmental notification forms.

PREVIOUS WORK:

1. Atkins Corner traffic study, Amherst.
2. Parking and Sight Distance Study, Monson
3. Functional classification change request for Church and Pleasant Streets – Palmer.
4. Data collection activities at the request of local communities.
5. Reviews of all MEPA documents filed in the Pioneer Valley Region.

PROPOSED ACTIVITIES:

1. Provide Local Technical Assistance (LTA) to communities on an as requested basis. Each community will be limited to three requests per year. Typical activities may include data collection, operational analysis, small signal coordination studies, and safety studies.
2. Review and comment on all Environmental Notification Forms and Environmental Impact Reports as part of the MEPA process. To attend project scoping sessions for significant projects in the region as part of the MEPA process. To review all documents prepared under federal environmental laws and regulations.
3. Application of the latest versions of transportation software programs to perform analysis and test recommendations.
8. Present findings to communities through documentation and oral presentation as required.
9. Assist communities in implementing past corridor study recommendations.

PRODUCTS:

1. Reports documenting the findings and recommendations of all LTAs.
2. Recommendations and comments as appropriate for the review of MEPA documents.

Source	Budget	Est. Staff Effort
MassHighway PL	\$30,000	20 weeks
PVTA S. 5307	\$ 6,250	4 weeks
TOTAL	\$36,250	24 weeks

Task 4.7 Local Pavement Management Program

OBJECTIVE:

To continue pavement management technical assistance and administration. To update programs completed prior to 1996.

PREVIOUS WORK:

1. Local Pavement Management Study for Hadley.
2. Local Pavement Management Study for Southwick.
3. Local Pavement Management Study for Wilbraham.
4. Pavement Management data collection training for local communities.

PROPOSED ACTIVITIES:

1. Identify several additional rural, suburban, and urban communities interested in conducting pavement management programs.
2. Meet with elected officials, highway superintendents, and/or public works directors from the selected communities to explain the program and to coordinate activities.
3. Document the efforts undertaken and review the results with officials from the selected municipalities.
4. Conduct training sessions for local highway department personnel on the pavement management process and educate them in identification of pavement distresses and data recording techniques.
5. Develop a program to monitor progress in each community to allow for updating of resource data for continuing pavement management.
6. Provide follow-up technical assistance to communities with pavement management programs already in place.
7. Collect GPS coordinate information for all new roadways to assist in Mapping.

PRODUCTS:

1. Two New Municipal Pavement Management Systems.
2. Updates for existing municipal pavement management plans, as requested.

Source	Budget	Est. Staff Effort
Local Funds	\$9,500	6 weeks
TOTAL	\$9,500	6 weeks

STAFFING REPORT

The following PVPC staff members are expected to work on the 1999 – 2000 Unified Work Program. The percentage of each staff members time devoted to Transportation Planning Tasks is approximated under “% Time on Transportation”.

<u>Name</u>	<u>Title</u>	<u>% Time on Transportation</u>
MJ Adams	Economic Development Manager	25%
Natalie Bozarth	Community Development Staff	10%
Ray Centeno	Graphics	30%
Chris Curtis	Land Use Section Head	20%
Tim Doherty	Senior Transportation Planner II	100%
Shaun Hayes	Graphics/GIS Manager	35%
Tina Ho	Transportation Planner – Specialist	100%
Amir Kouzehkanani	Senior Transportation Planner – Manager	100%
John Larsen	Analyst/Information Coordinator	60%
Jim Mazik	Community Development Section Head	15%
Jeff McCollough	Senior Transportation Planner II	100%
Doug McDonald	Land Use Planner	25%
Tracey Miller	Land Use Planner	20%
Dan Montagna	Transportation Planner I	100%
Bonnie Parsons	Historic Preservation Planner	35%
Catherine Ratte	Senior Land Use Planner	40%
Dana Roscoe	Transportation Section Head	100%
Gary Roux	Transportation Section Head	100%
Jim Scace	GIS Specialist	50%
Ashley Shea	Communications/Outreach Manager	25%
Denis Superczynski	Senior Land Use Planner	20%
Todd Zukowski	GIS Specialist	75%
Transportation Interns		100%
New Transit Planner		100%
New Transportation Planner		100%
New Senior Land Use Planner		20%
New Land Use Planner		20%

ADDITIONAL PLANNING PROJECTS

1. Rideshare Coordinator - University of Massachusetts: This position was recently filled and efforts are underway to improve ridesharing activities for employees and students.
2. University of Massachusetts/City of Northampton/US Fish and Wildlife TMA: Efforts are currently underway by CARAVAN to develop a Memorandum of Understanding between the three shareholders and hire a rideshare coordinator for the TMA.
3. Downtown Springfield Master Plan Project: The City of Springfield has recently hired a consulting team to perform a long range Master plan for the downtown area. Likely topics to be covered include: The Basketball Hall of Fame Expansion project, Union Station Revitalization, Proposed Minor League Baseball Stadium/Franchise and Riverfront Redevelopment.
4. PVTA Park and Ride Lot Project: The PVTA has hired a private consultant to make recommendations on proposed locations for Park and Ride lots along existing transit routes in the region.
5. PVTA Smart-Card Technology Program: The PVTA has started implementation of its Smart-Card program allowing riders to pay fares using a "debit-card".

PREVIOUS TRANSPORTATION STUDIES

Jacob's Ladder Trail Scenic Byway Study- Landscape Inventory & Assessment
Jacob's Ladder Trail Scenic Byway Study- Executive Summary
Jacob's Ladder Trail Scenic Byway Study- Highway and Safety Analysis
Jacob's Ladder Trail Scenic Byway Study- Cultural Resources Inventory
Jacob's Ladder Trail Scenic Byway Study- Land Use Strategies
Touring Jacob's Ladder Trail by Bicycle or Car
Jacob's Ladder Trail Scenic Byway Development Guidebook
Jacob's Ladder Trail Scenic Byway. Improvements Plan: Phase II
Town of Hadley Ma. Americans with Disability Act. Transition Plan.
The Pioneer Valley Plan For Progress
CT. River Walk & Bikeway Analysis
Valley Vision: The Regional Land Use Plan
A View of Our Valley: Population
A View Of Our Valley: Transportation
A View of Our Valley: Employment & Income
A View of Our Valley: Market Trends
Employment Projections for the PVPC
Major Employers Inventory for the Pioneer Valley Region
1997 Major Employers Inventory Report
Route 9 Corridor Study, Traffic Improvements
Interstate 91 Corridor Study: An Impact Analysis of the Cultural Landscape
Southwick Report: A Report on Traffic Issues
1990 Transit Riders Study
Route 10 Corridor Study
Route 9 Corridor Supplemental Report
Route 5 Corridor Study
Rte.9 Corridor Study: Land Use Trends
Rte.9 Corridor Study Addendum

Rte. 5 Corridor Study Supplemental Report: Rte. 5 Signal Coordination
Rte. 5 Corridor Study Supplemental Report: Elmwood Area Preliminary Travel Demand Analysis
Route 10/202 Corridor Study
A Decade of Regional Traffic Counts 1983-1993
Origin/Destination Survey of PVTA Rte. 107
Complimentary Paratransit Plan
Forging a Link Between Land Use & Transportation Planning in the Pioneer Valley Region
Boston Road Corridor Study
The VMT Reduction Workbook
PVTA Economic Benefit and Impact Study
Regional Traffic Counts 1990-1995
1997 Pioneer Valley Regional Transportation Plan
Regional Pavement Management Report
State Street Signal Coordination Project
Pioneer Valley Region Congestion Mgmt. System
Regional Traffic Counts 1992-1997
Traffic and Parking Study Update Report for Easthampton
Route 47 Scenic Farm Byway Study
Route 20 Corridor Study – Westfield/West Springfield

FFY 2000 Unified Transportation Work Program Funding Profile

	Total	MHD 3C PL	MHD 3C SPR	Town of Belchertown	FTA S. 5303	PVPC* Match	PVTA** S. 5303 Match	PVTA S. 5307 Match	EOEA Grant	Transp Enhance Funds	FHWA Scenic Byway	TDM Funds
1.0 Management & Certification of the 3C Process												
1.1 Management of the 3C Process	70,350	35,000			8,000	7,000	1,600	15,000	3,750			
1.2 Unified Transportation Work Program	5,200	4,000			1,000		200					
1.3 Public Participation Process	28,600	20,000			3,000		600	4,000	1,000			
1.4 TIP Development	41,050	25,000			4,000		800	9,000	2,250			
1.5 Statewide Funding Proposal Assistance	17,500	17,500										
1.5a Statewide Funding Proposal Assistance - Transportation	3,750	3,750					0					
1.5b Statewide Funding Proposal Assistance - Land Use	10,000	10,000					0					
1.5c Statewide Funding Proposal Assistance - Community Dev.	3,750	3,750					0					
1.6 Strategy 2000	26,900	24,400						2,000	500			
1.7 Enhancement Project Start-up	5,000	5,000										
Subtotal of Section 1.0	194,600	130,900			16,000	7,000	3,200	30,000	7,500			
2.0 Technical Support & Data Collection												
2.1 Traffic Counting	20,000	20,000										
2.2 Regional Travel Demand Modeling/Clean Air Planning	49,950	30,000			1,000		200	15,000	3,750			
2.3 GIS, Mapping and Graphics	92,590	52,000			4,000		800	5,000	1,250			
2.4 Information Center	72,450	70,000			1,000		200	1,000	250			
2.5 Regional Congestion Management System - Data Collection	3,750	2,500						1,000	250			
2.6 Regional Pavement Management System - Data Collection	34,000	34,000										
Subtotal of Section 2.0	272,740	208,500			6,000		1,200	22,000	5,500	29,540		
3.0 RTP Planning												
3.1 Regional Transportation Plan	77,283	63,410			11,561		2,312	20,000	5,000			
3.2 Transit System Surveys & Route Implementation	42,232				14,360		2,872					
3.3 East Longmeadow Rotary Study	85,000	15,000	70,000									
3.4 Jacobs Ladder Trail Scenic Byway Project	463,145										463,145	
3.5 Regional Congestion Management System - Project Development	38,750	35,000						3,000	750			
3.6 Regional Pavement Management System - Project Development	16,500	16,500										
3.7 Bradley Airport Traffic Study	17,000	17,000										
3.8 Regional Studies	37,400	35,000			2,000		400					
3.9 Intelligent Transportation Systems (ITS) - Strategic Planning	15,000	15,000										
3.10 Transit Economic Development and Access to Jobs Studies	25,000							20,000	5,000			
3.11 Connecticut River Walk & Bikeway Coordination	5,000	5,000										
3.12 Maple Street Bridge Project, Cheshire	614,288									614,288		
Subtotal of Section 3.0	1,436,598	201,910	70,000		27,921		5,584	43,000	10,750	614,288	463,145	
4.0 Ongoing Transportation Planning												
4.1 Regional Transit Planning	93,300											
4.2 Regional Paratransit Planning	11,000				19,000		3,800	57,500	13,000			
4.3 Implementing the Regional Land Use Plan	20,000	10,000			5,000		1,000	8,000	2,000			
4.4 Pedestrian, Transit and Bicycling Promotion	104,600	6,400										98,200
4.5 Regional Bicycle & Pedestrian Planning	43,000	33,000						8,000	2,000			
4.5a Regional Bicycle & Pedestrian Planning - Transportation	20,000	15,000						4,000	1,000			
4.5b Regional Bicycle & Pedestrian Planning - Land Use	23,000	18,000						4,000	1,000			
4.6 Local Technical Assistance	36,250	30,000						5,000	1,250			
4.6a Local Technical Assistance - Transportation	31,250	25,000						5,000				
4.6b Local Technical Assistance - Land Use	5,000	5,000										
4.7 Local Pavement Management Program	9,500			9,500								
Subtotal of Section 4.0	317,650	79,400		9,500	24,000		4,800	82,500	19,250			98,200
MHD 3C Direct Costs												
MHD 3C Direct Costs - Transportation	46,290	46,290										
MHD 3C Direct Costs - Graphics	23,440	23,440										
MHD 3C Direct Costs - Land Use	10,650	9,200										
MHD 3C Direct Costs - Data	9,200	2,500										
MHD 3C Direct Costs - Communications	500	500										
Program Sum	2,169,678	667,000	70,000	9,500	73,921	7,000	14,784	177,500	43,000	614,288	463,145	98,200

* PVPC funds serve as an overmatch to the S. 5303 Program

**PVTA S. 5303 match is 20% of total program amount only.

NOTE: PL Funding amount includes \$335,400 of funds previously encumbered but unexpended under Contract #97106.

**FFY 2000 Unified Transportation Work Program
Funding Summary**

Transportation Funding			Overall Funding		
	Value	% of Total		Value	% of Total
FHWA/MasHighway - PL	\$ 667,000.00	29.80%	FHWA/MasHighway - PL	\$ 667,000.00	17.43%
FHWA/MasHighway - SPR	\$ 70,000.00	3.13%	FHWA/MasHighway - SPR	\$ 70,000.00	1.83%
FTA/PVTA	\$ 80,921.00	3.62%	FTA/PVTA	\$ 80,921.00	2.11%
FTA/PVPC	\$ 235,284.00	10.51%	FTA/PVPC	\$ 235,284.00	6.15%
Local Pavement Management	\$ 9,500.00	0.42%	Local Pavement Management	\$ 9,500.00	0.25%
* Transportation Enhancement Funds	\$ 614,288.00	27.44%	* Transportation Enhancement Funds	\$ 614,288.00	16.05%
* Transportation Demand Management Funds	\$ 98,200.00	4.39%	* Transportation Demand Management Funds	\$ 98,200.00	2.57%
* FHWA Scenic Byway Funding	\$ 463,145.00	20.69%	* FHWA Scenic Byway Funding	\$ 463,145.00	12.10%
Total	\$ 2,238,338.00	100.00%	EOEA Farmland Preservation Project	\$ 29,200.00	0.76%
			MARPA Support Services	\$ 12,800.00	0.33%
			EPA/DEP Water Quality Planning	\$ 79,400.00	2.07%
			EPA/DWPC Urban Stormwater Management	\$ 55,000.00	1.44%
			Pioneer Valley Water Quality Initiatives	\$ 8,000.00	0.21%
			* HUD/CDBG Administration - 1997 projects	\$ 90,600.00	2.37%
			* HUD/CDBG Administration - 1998 projects	\$ 601,300.00	15.71%
			EOTC Stormwater Management/GRIP Project	\$ 30,400.00	0.79%
			Route 9 Construction Mitigation Plan	\$ 28,500.00	0.74%
			EOEA Planning Program/Open Space Bond	\$ 32,200.00	0.84%
			Household Hazardous Waste Management	\$ 12,000.00	0.31%
			DHCD/Strategic Planning - New Projects	\$ 64,500.00	1.69%
			* HUD/CDBG Administration - New Projects	\$ 105,450.00	2.75%
			DEP Septic System Loan Program Management	\$ 4,600.00	0.12%
			EOEA Watershed Initiative Project	\$ 12,800.00	0.33%
			Local Service Contracts	\$ 72,600.00	1.90%
			FY 2000 Local Assessments	\$ 70,000.00	1.83%
			MHC and PVPC Historic Preservation	\$ 43,750.00	1.14%
			Regional GIS Service Center	\$ 32,000.00	0.84%
			RPA State Assistance Funds	\$ 70,000.00	1.83%
			EPA Environmental Brownfield Demo Project	\$ 60,000.00	1.57%
			FmHA Home Projects	\$ 15,500.00	0.40%
			US/EDA Regional Economic Planning	\$ 58,800.00	1.54%
			Total	\$ 3,827,738.00	100.00%
Other Funding					
	Value	% of Total			
EOEA Farmland Preservation Project	\$ 29,200.00	1.84%			
MARPA Support Services	\$ 12,800.00	0.81%			
EPA/DEP Water Quality Planning	\$ 79,400.00	5.00%			
EPA/DWPC Urban Stormwater Management	\$ 55,000.00	3.46%			
Pioneer Valley Water Quality Initiatives	\$ 8,000.00	0.50%			
* HUD/CDBG Administration - 1997 projects	\$ 90,600.00	5.70%			
* HUD/CDBG Administration - 1998 projects	\$ 601,300.00	37.83%			
EOTC Stormwater Management/GRIP Project	\$ 30,400.00	1.91%			
Route 9 Construction Mitigation Plan	\$ 28,500.00	1.79%			
EOEA Planning Program/Open Space Bond	\$ 32,200.00	2.03%			
Household Hazardous Waste Management	\$ 12,000.00	0.76%			
DHCD/Strategic Planning - New Projects	\$ 64,500.00	4.06%			
* HUD/CDBG Administration - New Projects	\$ 105,450.00	6.63%			
DEP Septic System Loan Program Management	\$ 4,600.00	0.29%			
EOEA Watershed Initiative Project	\$ 12,800.00	0.81%			
Local Service Contracts	\$ 72,600.00	4.57%			
FY 2000 Local Assessments	\$ 70,000.00	4.40%			
MHC and PVPC Historic Preservation	\$ 43,750.00	2.75%			
Regional GIS Service Center	\$ 32,000.00	2.01%			
RPA State Assistance Funds	\$ 70,000.00	4.40%			
EPA Environmental Brownfield Demo Project	\$ 60,000.00	3.78%			
FmHA Home Projects	\$ 15,500.00	0.98%			
US/EDA Regional Economic Planning	\$ 58,800.00	3.70%			
Total	\$ 1,589,400.00	100.00%			

* Denotes Pass-through Funding

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

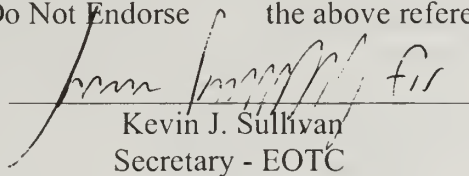
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

PIONEER VALLEY MPO ENDORSEMENT SHEET

The signatures below signify that all members of the Pioneer Valley Metropolitan Planning Organization or their designees have met on September 1, 1999 and discussed the following item for endorsement: The Pioneer Valley Unified Transportation Work Program for Fiscal Year 2000.

Executive Office of Transportation and Construction

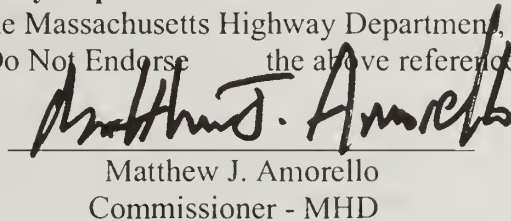
I, Secretary of the Executive Office of Transportation and Construction, hereby
☒ Endorse ☐ Do Not Endorse the above referenced item.


Kevin J. Sullivan
Secretary - EOTC

9/1/99
Date

Massachusetts Highway Department

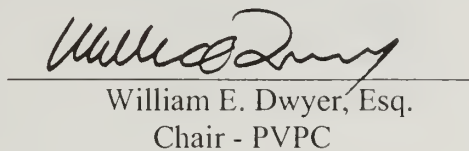
I, Commissioner of the Massachusetts Highway Department, hereby
☒ Endorse ☐ Do Not Endorse the above referenced item.


Matthew J. Amorello
Commissioner - MHD

9/1/99
Date

Pioneer Valley Planning Commission

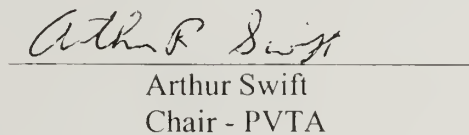
I, Chair of the Pioneer Valley Planning Commission, hereby
☒ Endorse ☐ Do Not Endorse the above referenced item.


William E. Dwyer, Esq.
Chair - PVPC

9/1/99
Date

Pioneer Valley Transit Authority

I, Chair of the Pioneer Valley Transit Authority, hereby
☐ Endorse ☐ Do Not Endorse the above referenced item.


Arthur Swift
Chair - PVTA

9/1/99
Date

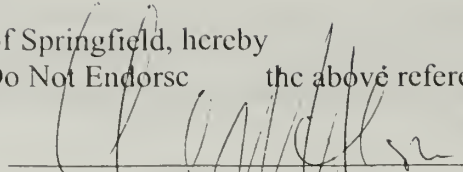
City of Springfield

I, Mayor of the City of Springfield, hereby

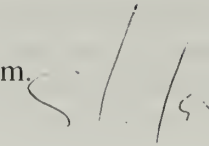
☒ Endorse

☐ Do Not Endorse

the above referenced item.



Michael J. Albano
Mayor-Springfield



Date

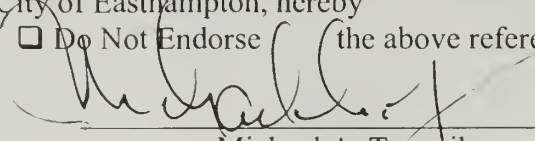
City of Easthampton

I, Mayor of the City of Easthampton, hereby

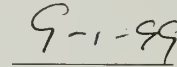
☒ Endorse

☐ Do Not Endorse

the above referenced item.



Michael A. Tauznik
Mayor-Easthampton



Date

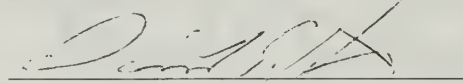
Town of South Hadley

I, Board of Selectmen member of the town of South Hadley, hereby

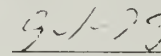
☒ Endorse

☐ Do Not Endorse

the above referenced item.



David Hutchinson
Selectman-South Hadley



Date

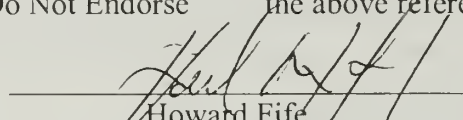
Town of Holland

I, Board of Selectmen member of the town of Holland, hereby

☒ Endorse

☐ Do Not Endorse

the above referenced item.



Howard Fife
Selectman-Holland



Date



